

In re Patent Application of:
ROBERT M. HERRIN
Serial No. **10/721,962**
Filing Date: **11/25/2003**

In The Specification:

Please amend the specification as follows:

Brief Description of the Drawings and Photographs

[0007] A preferred embodiment of the invention, as well as alternate embodiments are described by way of example with reference to the accompanying drawings and ~~photographs~~ in which:

[0030] With reference again to FIG. 1, an in-feed conveyor **130** may be used for conveying the blank **200** to the first position **106**. ~~By~~ By way of example, one embodiment may include the conveyor **130** placing the blank **200** at an angle **132** to vertical, and thus in a non-vertical orientation for permitting gravity to slidably hold the blank against a surface of the conveyor while conveying the blank on a rotating belt **134**. It is to be understood that the apparatus **100** may be operated with the blank entering at a horizontal orientation as well as the angle position herein described.

[0038] With the partially formed tray **206** secured in the second position **108**, as illustrated with reference again to FIG. 4, by way of example, the platen **102** is retracted and the folding of the top wall portions **232** and the outside corner support members **238** commence. With reference again to FIG. 2, and to FIGS. 10 and 11, the first folding arm **120** is operable for folding the top wall portion **232** about the fifth fold line

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236 to a position generally parallel to the bottom panel **210**. The side fold portion **246** is partially folded about the sixth fold line **240** by passing through the passage **126** formed by the spaced ~~compressed~~ compression plate **122** and the fixed plate **124**. As earlier described, the compression plates **122** are moveable for biasing against each of the side fold portions **246**. A squared inside corner is illustrated by way of example in FIG. 10, wherein a squared corner platen **103** would be employed.

[0040] With reference to FIGS. 12 - 15, a forming of the outside corner support members **238** commences with the second folding arm **128** rotated against the end fold portions **244**, folding them about the sixth fold lines **240**, and biasing the end fold portions against the end panels **212**. With reference to FIG. 12, by way of example, the second folding arm **128** includes an axis of rotation **128A** generally perpendicular to an axis of rotation **120A** of the first folding arm **120**. As illustrated with continued reference to FIG. 12, by way of example, an edge **245** of the end fold portion **244** is guided onto the end panel **212** along a surface **125** of the fixed plate **124** for orienting the end fold portion **244** in a preferred orthogonal relation to the bottom panel **210** for enhancing the load bearing strength of the tray **202**, as earlier described. A final compression phase includes the compression plate **122** folding of the partially folded side fold portion **246** and compressing thereof as illustrated with reference to FIGS. 16 -18. Compression forces act upon each corner of the fully formed tray **202** with the compression plate, the

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first and second folding arms, and the locking arm each providing opposing forces to compress the adhesive against respective tray surfaces, as further illustrated with reference to FIG. 19 including a partial top view of the double glued wall construction. As will be understood by those skilled in the art, the controller **148** earlier described with reference to FIG. 1, ~~a controller~~ is operable with drive devices **170**, as illustrated with reference again to FIGS. 2 and 3, for each of the platen **102** drive, the compression plate **122**, the first folding arm **120**, the second folding arm **128**, and the locking mechanism **arm 168** for a timely movement ~~thereof~~ for each of these element to contribute to the folding of the blank **200** into the partially formed tray **206**, and into the fully formed tray **202**, as herein described. With such, the fully formed tray **202** may be released from the frame **112**. As illustrated with reference again to FIG. 2, a glue-setting phase may be provided as herein described, by way of example, with reference to a magazine styled frame **172** which receives the fully formed tray **202** stops **174**, such as that of the locking arm **168** are released to permit a subsequent tray being formed to push the fully formed and glued tray into the magazine styled frame **172**. The magazine styled frame **172** includes framing elements **176** that form an aperture for receiving the tray having an increased outside dimension as a result of the folded corner construction.